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- (c) Commencement of operation. Not later than 60 days after the unit repowered under an approved repowering plan commences operation at full load, the designated representative of the unit shall submit a report comparing the actual hourly emissions and percent removal of each pollutant controlled at the unit to the actual hourly emissions and percent removal at the existing unit under the plan prior to repowering, determined in accordance with part 75 of this chapter.
- (d) Decision to terminate. If at any time before the end of the repowering extension the owners and operators decide to terminate good faith efforts to design, construct, and test the qualified repowering technology on the unit to be repowered under an approved repowering plan, then the designated representative shall submit a notice to the Administrator by the earlier of the end of the repowering extension or a date within 30 days of such decision, stating the date on which the decision was made.

§ 72.95 Allowance deduction formula.

The following formula shall be used to determine the total number of allowances to be deducted for the calendar year from the allowances held in an affected source's compliance account as of the allowance transfer deadline applicable to that year:

Total allowances deducted = Tons emitted + Allowances surrendered for underutilization + Allowances deducted for Phase I extensions + Allowances deducted for substitution or compensating units

where

- (a) "Tons emitted" is the total tons of sulfur dioxide emitted by the affected units at the source during the calendar year, as reported in accordance with part 75 of this chapter.
- (b) "Allowances surrendered for underutilization" is the total number of allowances calculated in accordance with §72.92 (a) and (c).
- (c) "Allowances deducted for Phase I extensions" is the total number of allowances calculated in accordance with \(\)?2.42(f)(1)(i).
- (d) "Allowances deducted for substitution or compensating units" is the

total number of allowances calculated in accordance with the surrender requirements specified under §72.41(d)(3) or (e)(1)(iii)(B) or §72.43(d)(2).

[58 FR 3650, Jan. 11, 1993, as amended at 62 FR 55485, Oct. 24, 1997; 70 FR 25334, May 12, 2005]

§ 72.96 Administrator's action on compliance certifications.

- (a) The Administrator may review, and conduct independent audits concerning, any compliance certification and any other submission under the Acid Rain Program and make appropriate adjustments of the information in the compliance certifications and other submissions.
- (b) The Administrator may deduct allowances from or return allowances to a source's compliance account in accordance with part 73 of this chapter based on the information in the compliance certifications and other submissions, as adjusted.

[58 FR 3650, Jan. 11, 1993, as amended at 70 FR 25334, May 12, 2005]

APPENDIX A TO PART 72—METHODOLOGY FOR ANNUALIZATION OF EMISSIONS LIMITS

For the purposes of the Acid Rain Program, 1985 emissions limits must be expressed in pounds of SO_2 per million British Thermal Unit of heat input (lb/mmBtu) and expressed on an annual basis.

Annualization factors are used to develop annual equivalent SO2 limits as required by section 402(18) of the CAA. Many emission limits are enforced on a shorter term basis (or averaging period) than annually. Because of the variability of sulfur in coal and, in some cases, scrubber performance, meeting a particular limit with an averaging period of less than a year and at a specified statutory emissions level would require a lower annual average SO2 emission rate (or annual equivalent SO₂ limit) than would the shorter term statutory limit. EPA has selected a compliance level of one exceedance per 10 years. For example, an SO₂ emission limit of 1.2 lbs/ MMBtu, enforced for a scrubbed unit over a 7-day averaging period, would result in an annualized SO₂ emission limit of 1.16 lbs/ MMBtu. In general, the shorter the averaging period, the lower the annual equivalent would be. Thus, the annualization of limits is established by multiplying each federally enforceable limit by an annualization factor that is determined by the averaging period and whether or not it's a scrubbed unit.

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TABLE A-1—SO₂EMISSION AVERAGING PERIODS AND ANNUALIZATION FACTORS

	Annualization factor Scrubbed Unscrubbed		
Definition			
	Unit	Unit	
Oil/gas unit	1.00	1.00	
<=1 day	0.93	0.89	
1 week	0.97	0.92	
30 days	1.00	0.96	
90 days	1.00	1.00	
1 year	1.00	1.00	
Not specified	0.93	0.89	
At all times	0.93	0.89	
Coal unit: No Federal limit or limit			
unknown	1.00	1.00	

APPENDIX B TO PART 72—METHODOLOGY FOR CONVERSION OF EMISSIONS LIMITS

For the purposes of the Acid Rain Program, all emissions limits must be expressed

in pounds of SO_2 per million British Thermal Unit of heat input (lb/mmBtu).

The factor for converting pounds of sulfur to pounds of SO2 is based on the molecular weights of sulfur (32) and SO₂ (64). Limits expressed as percentage of sulfur or parts per million (ppm) depend on the energy content of the fuel and thus may vary, depending on several factors such as fuel heat content and atmospheric conditions. Generic conversions for these limits are based on the assumed average energy contents listed in table A-2. In addition, limits in ppm vary with boiler operation (e.g., load and excess air); generic conversions for these limits assume, conservatively, very low excess air. The remaining factors are based on site-specific heat rates and capacities to develop conversions for Btu per hour. Standard conversion factors for residual oil are 42 gal/bbl and 7.88 lbs/gal.

TABLE B-1—CONVERSION FACTORS

[Emission limits converted to lbs $SO_2/MMBtu$ by multiplying as below]

Unit measurement	Plant fuel type			
	Bituminous coal	Subbitu- minous coal	Lignite coal	Oil
Lbs sulfur/ MMBtu	2.0	2.0	2.0	2.0
% sulfur in fuel	1.66	2.22	2.86	1.07
Ppm SO ₂	0.00287	0.00384		0.00167
Ppm sulfur in fuel				0.00334
Tons SO ₂ /hour		(HEATRATE*S	SUMNDCAF	*capacity
		factor)	1	
Lbs SO ₂ /hour	1,000/(HEAT	RATE*SUMNÉ	OCAP*capa	city factor) 1

¹In these cases, if the limit was specified as the "site" limit, the summer net dependable capability for the entire plant is used; otherwise, the summer net dependable capability for the unit is used. For units listed in the NADB, "HEATRATE" shall be that listed in the NADB under that field and "SUMNDCAP" shall be that listed in the NADB under that field. For units not listed in the NADB, "HEATRATE" is the generator net full load heat rate reported on Form EIA–860 and "SUMNDCAP" is the summer net dependable capability of the generator (in MWe) as reported on Form EIA–860.

TABLE B-2—ASSUMED AVERAGE ENERGY

Fuel type	Average heat content		
Bituminous Coal	24 MMBtu/ton.		
Subbituminous Coal	18 MMBtu/ton.		
Lignite Coal			
Residual Oil	6.2 MMBtu/bbl		

APPENDIX C TO PART 72—ACTUAL 1985 YEARLY SO₂ EMISSIONS CALCULATION

The equation used to calculate the yearly SO_2 emissions (SO2) is as follows:

 $SO2 = (coal SO_2 emissions) + (oil SO_2 emissions) (in tons)$

If gas is the only fuel, gas emissions are defaulted to 0

Each fuel type SO_2 emissions is calculated on a yearly basis, using the equation:

fuel SO₂ emissions (in tons) = (yrly wtd. av. fuel sulfur %) \times (AP-42 fact.) \times (1-scrb.

effic. %/100) × (units conver. fact.) × (yearly fuel burned)

For coal, the yearly fuel burned is in tons/yr and the AP-42 factor (which accounts for the ash retention of sulfur in coal), in lbs SO_2 ton coal, is by coal type:

Coal type	AP-42 factor
	39 lbs/ton 35 30

For oil, the yearly fuel burned is in gal/yr. If it is in bbl/yr, convert using 42 gal/bbl oil. The AP-42 factor (which accounts for the oil density), in lbs SO_2 /thousand gal oil, is by oil type:

Oil type	AP-42 factor
Distillate (light)	142 lbs/1,000 gal 157